

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	248707	nitrite or nitrate	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 08:48
L2	74082	trifluoroacetic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 09:20
L3	2239	I1 same I2	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 07:51
L4	72634	adipic	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 07:51
L5	10	I3 same I4	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 08:28
L6	119	(562/528).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/08/08 08:29
L7	112	(562/540).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/08/08 08:29
L8	214	I6 or I7	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 09:16
L9	0	I3 and I8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 08:30
L10	1	((nitrite or nitrate) same (trifluoroacetic or trifluoracetic) same (cycloalkanol or cycloalkanone or cyclohexanol or cyclopentanol or cyclohexanone or cyclopentanone)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 08:51
L11	9	((nitrite or nitrate) and (trifluoroacetic or trifluoracetic) \and (cycloalkanol or cycloalkanone or cyclohexanol or cyclopentanol or cyclohexanone or cyclopentanone)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 08:54

## EAST Search History

L12	9	((nitrite or nitrate) and (trifluoroacetic or trifluoracetic) and (cycloalkanol or cycloalkanone or cyclohexanol or cyclopentanol or cyclohexanone or cyclopentanone)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 08:55
L13	9	((nitrite or nitrate) and (trifluoroacetic or trifluoracetic) and (cycloalkanol or cycloalkanone or cyclohexanol or cyclopentanol or cyclohexanone or cyclopentanone)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 08:55
L14	59	I4 and I8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 09:15
L15	198	I6 or I7	US-PGPUB; USPAT	OR	ON	2007/08/08 09:17
L16	3	I2 and I15	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/08 09:20

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 FILE LAST UPDATED: 7 Aug 2007 (20070807/ED)

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=> nitrite or nitrate  
 61852 NITRITE  
 25298 NITRITES  
 77440 NITRITE  
 (NITRITE OR NITRITES)  
 262801 NITRATE  
 81334 NITRATES  
 307259 NITRATE  
 (NITRATE OR NITRATES)  
 L1 347261 NITRITE OR NITRATE

=> trifluoracetic  
 L2 179 TRIFLUORACETIC

=> trifluoroacetic  
 L3 17531 TRIFLUOROACETIC

=> 12 or 13  
 L4 17623 L2 OR L3

=> 11(1)14  
 L5 151 L1(L)L4

=> adipic  
 L6 40137 ADIPIC

=> 15 and 16  
 L7 2 L5 AND L6

=> d 17 1-2 ti fbib abs

L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
 TI Process for preparation of aliphatic dicarboxylic acid derivatives  
 AN 2005:1075752 CAPLUS  
 DN 143:346805  
 TI Process for preparation of aliphatic dicarboxylic acid derivatives  
 IN Matsumura, Yoshihiro; Onomura, Osamu; Iwasaki, Fumiaki

PA Tokuyama Corporation, Japan  
SO PCT Int. Appl., 18 pp.  
CODEN: PIXXD2  
DT Patent  
LA Japanese  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2005092827	A1	20051006	WO 2005-JP5986	20050323
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP	1728779	A1	20061206	JP 2004-90983 EP 2005-721635	A 20040326 20050323
	R: DE, FR			JP 2004-90983 WO 2005-JP5986	A 20040326 W 20050323
CN	1938254	A	20070328	CN 2005-80009876 JP 2004-90983 WO 2005-JP5986	20050323 A 20040326 W 20050323

OS CASREACT 143:346805  
AB This invention pertains to a method for producing aliphatic dicarboxylic acids, which comprises oxidation of alicyclic secondary alc. compds. or alicyclic ketone compds. with nitrite or nitrate in the presence of trifluoroacetic acid. For example, hexanedioic acid was prepared from both cyclohexanol and cyclohexanone by oxidation with NaNO<sub>2</sub>.

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Efficient oxidation of cycloalkanols by sodium nitrite with molecular oxygen in trifluoroacetic acid  
AN 2004:815380 CAPLUS  
DN 142:6002  
TI Efficient oxidation of cycloalkanols by sodium nitrite with molecular oxygen in trifluoroacetic acid  
AU Matsumura, Yoshihiro; Yamamoto, Yutaka; Moriyama, Noriaki; Furukubo, Shigeru; Iwasaki, Fumiaki; Onomura, Osamu  
CS Graduate School of Biomedical Sciences, Nagasaki University, Nagasaki, 852-8521, Japan  
SO Tetrahedron Letters (2004), 45(44), 8221-8224  
CODEN: TELEAY; ISSN: 0040-4039  
PB Elsevier B.V.  
DT Journal  
LA English  
OS CASREACT 142:6002  
AB Oxidation of aliphatic cycloalkanols by sodium nitrite in trifluoroacetic acid gave  $\alpha, \omega$ -dicarboxylic acids in good yields. Adipic acid was obtained in a quant. yield from cyclohexanol using 1 equiv of sodium nitrite under oxygen atmospheric but the oxidation required more than 3 equiv of sodium nitrite under nitrogen atmospheric. The oxidation method was applicable to the conversion of 1-alkanols to the corresponding carboxylic acids.

RE.CNT 27 THERE ARE 27 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

=> cyclopentanol or cyclohexanol or cyclopentanone or cyclopentanol  
3887 CYCLOPENTANOL  
306 CYCLOPENTANOLS  
4013 CYCLOPENTANOL  
(CYCLOPENTANOL OR CYCLOPENTANOLS)  
23960 CYCLOHEXANOL  
1119 CYCLOHEXANOLS  
24366 CYCLOHEXANOL  
(CYCLOHEXANOL OR CYCLOHEXANOLS)  
12960 CYCLOPENTANONE  
1057 CYCLOPENTANONES  
13350 CYCLOPENTANONE  
(CYCLOPENTANONE OR CYCLOPENTANONES)  
• 3887 CYCLOPENTANOL  
306 CYCLOPENTANOLS  
4013 CYCLOPENTANOL  
(CYCLOPENTANOL OR CYCLOPENTANOLS)  
L8 38731 CYCLOPENTANOL OR CYCLOHEXANOL OR CYCLOPENTANONE OR CYCLOPENTANOL

=> d his

(FILE 'HOME' ENTERED AT 07:55:24 ON 08 AUG 2007)

FILE 'CAPLUS' ENTERED AT 07:56:31 ON 08 AUG 2007  
L1 347261 NITRITE OR NITRATE  
L2 179 TRIFLUORACETIC  
L3 17531 TRIFLUOROACETIC  
L4 17623 L2 OR L3  
L5 151 L1(L) L4  
L6 40137 ADIPIC  
L7 2 L5 AND L6  
L8 38731 CYCLOPENTANOL OR CYCLOHEXANOL OR CYCLOPENTANONE OR CYCLOPENTANOL

=> 15 and 18

L9 3 L5 AND L8

=> d his

(FILE 'HOME' ENTERED AT 07:55:24 ON 08 AUG 2007)

FILE 'CAPLUS' ENTERED AT 07:56:31 ON 08 AUG 2007  
L1 347261 NITRITE OR NITRATE  
L2 179 TRIFLUORACETIC  
L3 17531 TRIFLUOROACETIC  
L4 17623 L2 OR L3  
L5 151 L1(L) L4  
L6 40137 ADIPIC  
L7 2 L5 AND L6  
L8 38731 CYCLOPENTANOL OR CYCLOHEXANOL OR CYCLOPENTANONE OR CYCLOPENTANOL  
L9 3 L5 AND L8

=> 19 not 17

L10 1 L9 NOT L7

=> d 110 ti fbib abs

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Oxidation of alcohols to carbonyl compounds by nitrates and  
nitrites in aqueous trifluoroacetic acid. Reaction  
mechanism and unusual stoichiometry of reduction of the oxidant to  
nitrogen  
AN 1989:23082 CAPLUS  
DN 110:23082

TI Oxidation of alcohols to carbonyl compounds by nitrates and nitrites in aqueous trifluoroacetic acid. Reaction mechanism and unusual stoichiometry of reduction of the oxidant to nitrogen  
AU Rodkin, M. A.; Shpern, M. M.; Cheprakov, A. V.; Makhon'kov, D. I.; Mardaleishvili, R. E.; Beletskaya, I. P.  
CS Mosk. Gos. Univ., Moscow, USSR  
SO Zhurnal Organicheskoi Khimii (1988), 24(3), 488-95  
CODEN: ZORKAE; ISSN: 0514-7492  
DT Journal  
LA Russian  
OS CASREACT 110:23082  
AB The oxidation of benzyl alcs., benzhydrols, alkylphenylcarbinols, cycloalkanols, and sec-alkanols was carried out with NH<sub>4</sub>NO<sub>3</sub> and/or NaNO<sub>2</sub> in aqueous CF<sub>3</sub>CO<sub>2</sub>H. The N<sub>2</sub> produced suggested that the mechanism involved hydride transfer to form HNO. If O<sub>2</sub> is present, the oxidation can be carried out with a catalytic amount of nitrate.

=> ?carboxylic  
L11 419176 ?CARBOXYLIC

=> d his

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FILE 'CAPLUS' ENTERED AT 07:56:31 ON 08 AUG 2007  
L1 347261 NITRITE OR NITRATE  
L2 179 TRIFLUORACETIC  
L3 17531 TRIFLUOROACETIC  
L4 17623 L2 OR L3  
L5 151 L1(L) L4  
L6 40137 ADIPIC  
L7 2 L5 AND L6  
L8 38731 CYCLOPENTANOL OR CYCLOHEXANOL OR CYCLOPENTANONE OR CYCLOPENTANO  
L9 3 L5 AND L8  
L10 1 L9 NOT L7  
L11 419176 ?CARBOXYLIC

=> l5 and l11  
L12 14 L5 AND L11

=> l12 and l9  
L13 2 L12 AND L9

=> l12 not l9  
L14 12 L12 NOT L9

=> d l14 1-12 ti

L14 ANSWER 1 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
TI New graphite nitrate derived intercalation compounds of higher thermal stability

L14 ANSWER 2 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Use and applications of the computer interface freezing point depression measurements in the calculation of the van't Hoff factor of aqueous solutions

L14 ANSWER 3 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Preparation of substituted  $\beta$ -carboline IKK kinase 2 (IKK-2) inhibitors as potential antiinflammatory, immunomodulatory, or anticancer agents

L14 ANSWER 4 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN

TI Synthesis of enantiomerically pure amino-substituted fused bicyclic rings  
L14 ANSWER 5 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Diazotization of Methyl 3-Amino-7-isopropyl-2-methoxyazulene-1-carboxylate and Its 5-Isopropyl Isomer - A Convenient Synthesis of 1,2-Azulenequinone derivatives  
L14 ANSWER 6 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Preparation of 2-azetidinone ( $\beta$ -lactam) derivatives  
L14 ANSWER 7 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Synthesis and magnetic property of carboxyl bridging dicopper(II) complexes  
L14 ANSWER 8 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Photocatalytic systems. Part XX. Spin trapping of radicals in the photolysis of cerium(IV) and uranium(VI) in carboxylic acids  
L14 ANSWER 9 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Conversion of carboxylic acids to nitriles with shortening of the aliphatic chain by a methylene group  
L14 ANSWER 10 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Tropic acid derivatives  
L14 ANSWER 11 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Base hydrolysis of carboxylatopentaamminecobalt(III) nitrates  
L14 ANSWER 12 OF 12 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Thiocyanogen, thiocyanates, and isothiocyanates. III. Substitution reactions of triphenylmethyl isothiocyanate with acids and salts

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ADISINSIGHT	- Adis R&D Insight 1986-present
ADISNEWS	- Adis Newsletters 1983-present
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ANABSTR	- Analytical Abstracts
ANTE	- Abstr. in New Technologies and Eng. 1981 - present
APOLLIT	- APPLIED POLYMERS LITERATURE 1973-present
AQUALINE	- Aqualine 1960 to the present
AQUASCI	- Aquatic Sciences & Fisheries Abstracts 1978-present
AQUIRE	- Acquatic Toxicity Information Retrieval
BABS	- BEILSTEIN Database Abstracts 1980-present
BEILSTEIN	- BEILSTEIN File of Organic Compounds
BIBLIODATA	- GERMAN NATIONAL BIBLIOGRAPHY FROM 1945 - PRESENT
BIOENG	- Biotechnology and Bioengineering database 1982 - pres.
BIOSIS	- The BIOSIS Previews(R)/RN File 1969-present
BIOTECHABS	- Derwent Biotechnology Resource 1982-present
BIOTECHDS	- Derwent Biotechnology Resource 1982-present (Subsc.)
BIOTECHNO	- BIOTECHNOBASE 1980 TO 2003
CA	- The Chemical Abstracts File 1907-present
CABA	- CAB ABSTRACTS 1973-present
CAOLD	- The pre-1967 Chemical Abstracts File
CAPLUS	- The Chemical Abstracts Plus File 1907-present
CASREACT	- The Chemical Abstracts Reaction Search Service
CBNB	- Chemical Business NewsBase from 1984-present
CEABA-VTB	- Chem Eng and Biotech Abstr - Verfahrenstechn Ber 1966-
CERAB	- Ceramic Abstracts/World Ceramic Abstracts from 1975
CHEMCATS	- CHEMICAL CATALOGS ONLINE 1993-to the present
CHEMINFORMRX	- The CHEMINFORMRX Reaction Search Service
CHEMLIST	- Regulated Chemicals Listing
CHEMSAFE	- CHEMSAFE - chemical safety information
CIN	- The Chemical Industry Notes File for 1974-present
CIVILENG	- Civil Engineering Abstracts 1966 to the present
COMPENDEX	- COMPENDEX*PLUS File from 1970 - present
COMPUAB	- Computer & Information Systems Abstracts 1981-present
COMPUSCIENCE	- COMPUTERSCIENCE FROM 1972-2002

CONFSCI - Conference Papers Index from 1973-present  
COPPERLIT - Copper Literature Database  
CORROSION - Corrosion Abstracts 1980 to the present  
CROPB - Derwent Crop Protection File 1968 - 1984  
CROPR - Derwent Crop Protection Registry  
CROPU - DERWENT CROP PROTECTION FILE 1985 - 2003  
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CSCORP - ChemSources - USA and International (Company Directory)  
CSNB - Chemical Safety News Base from 1981-present  
DDFB - Derwent Drug File, Backfile 1964 - 1982  
DDFU - Derwent Drug File from 1983 - present  
DETERM - DETERM-DECHEMA thermophysical property database  
DGENE - Derwent Geneseq Database 1981 - present  
DISSABS - Dissertation Abstracts from 1861 to present  
DJSMDS - Derwent Reaction Search Service DJSM (Subscribers)  
DJSMONLINE - Derwent Reaction Search Service DJSM  
DKF - The German Automotive Engineering Database 1974-date  
DPCI - Derwent Patents Citation Index 1978 to present  
DRUGB - Derwent Drug File, Backfile 1964 - 1982 (Subscribers)  
DRUGMONOG - IMS Product Monographs (Approved Pharm. Industry Users  
DRUGMONOG2 - IMS Product Monographs  
DRUGU - Derwent Drug File from 1983-present (Subscribers)  
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EMA - Engineered Materials Abstracts File from 1986-present  
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ENCOMPPLIT2 - EnCompass Literature File 1964-Present (Non-Supporters)  
ENCOMPPAT - EnCompass Patent File 1964-present (Supporters)  
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ESBIOBASE - Elsevier Biobase 1994 to the present  
FOMAD - FOODLINE MARKET 1982 TO PRESENT  
FOREGE - FOODLINE LEGAL  
FORIS - Research in social sciences from 1996 - 2005  
FRANCEPAT - The French Patent Database from 1966 - present  
FRFULL - French Patent Full Text from 1980 - present  
FROSTI - FOODLINE SCIENCE 1972 TO PRESENT  
FSTA - Food Science Technology Abstracts from 1969 - present  
GBFULL - United Kingdom (GB) Patents Full Text from 1979 - pres  
GENBANK - Genetic Sequence Data Bank  
GEOREF - Geological Reference File 1785-present  
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HCAPLUS - CAPLUS File with hour-based pricing  
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HSDB - Hazardous Substances Databank  
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ICSD - ICSD - Inorganic Crystal Structure Data File  
IFICDB - The IFI Comprehensive Database from 1950-present  
IFICLIS - The IFI Current Patent Legal Status Database  
IFIPAT - The IFI Patent Database from 1950-present  
IFIREF - The IFI Uniterm and U.S. Class Reference File  
IFIUDB - The IFI Uniterm Database from 1950-present  
IMSCOPROFILE - IMS Company Profiles 1995-present  
IMSCOSEARCH - IMS Company Search  
IMSDRUGCONF - IMSworld Pharmaceutical Meetings Diary  
IMSDRUGNEWS - IMS Drug News 1991-present  
IMSPATENTS - IMS LifeCycle, Patent Focus with Patent Family Data

IMSPRODUCT - IMS LifeCycle, New Product Focus from 1982-present  
IMSRESEARCH - IMS LifeCycle, R&D Focus 1977-present  
INFODATA - Information Science and Work from 1976 to present  
INIS - International Nuclear Information System 1970-present  
INPADOCDB - The Intern. Patent Documentation Database 1836-pres.  
INSPEC - INSPEC file from 1898 - present  
INSPHYS - INSPHYS - Inspec Phys Supplement Backfile (1979 - 1994  
IPA - International Pharmaceutical Abstracts 1970-present  
ITRD - International Transport Research Documentation 1972-da  
JAPIO - JAPIO - Japanese Patents from 1976 - present  
KOREAPAT - Korean Patent Abstracts Database from 1979 - present  
KOSMET - Cosmetic & Perfume Science & Technology 1968-present  
LBIBLIO - Bibliodata learning File  
LCA - The CA Learning File  
LCASREACT - The CAS Reaction Search Service Learning File  
LDPCI - Derwent Patents Citation Index Learning File  
LDRUG - Derwent Drug Learn File  
LEMBASE - The EMBASE Learning File  
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LPATDPA - The PATDPA Learning File  
LREGISTRY - The Registry Learning File.  
LWPI - Derwent World Patents Index Learning File  
MARPAT - The CAS Patent Markush File 1988-present  
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MDF - Metals Datafile  
MECHENG - Mechanical and Transportation Eng. Abs. 1966-  
MEDLINE - MEDLars onLINE File from 1960 - present  
METADEX - METADEX File from 1966-present  
MRCK - The Merck Index Online (SM)  
MSDS-CCOHS - CCOHS Material Safety Data Sheets  
MSDS-OHS - Material Safety Data Sheets - OHS  
NAPRALERT - Natural Products Alert Database  
NLDB - Newsletter Database from 1988 - present  
NTIS - U.S.Government Reports Announcements 1964-present  
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PATDPASPC - German SPC for Drugs and Plant Protecting Agents 1992-  
PATIPC - International Patent Classification and Catchword Inde  
PCTFULL - WIPO/PCT Patents Full Text 1978 to the present  
PCTGEN - PCTGEN: World Patent Application Biosequences  
PHAR - Pharmaprojects drug development status file  
PHARMAML - Pharma Marketletter 1992 to the present  
PHIC - Pharmaceutical & Healthcare Industry News (Current)  
PHIN - Pharmaceutical & Healthcare Industry News Archive 1980  
PIRA - PIRA & PAPERBASE Database from 1975  
POLLUAB - Pollution Abstracts from 1970-present  
PROMT - PROMT from 1978 - present  
PROUSDDR - Drug Data Report from Prous Science  
PS - Pharmaceutical Substances  
RAPRA - Rubber, Plastics, Polymer Composites 1972 - present  
RDISCLOSURE - Research Disclosure 1960 to the present  
REGISTRY - The CAS Registry File of substances  
RSWB - Regional planning and building construction  
RTECS - Registry of Toxic Effects of Chemical Substances  
RUSSIAPAT - RUSSIAN PATENT ABSTRACTS DATABASE FROM 1924 - PRESENT

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SPECINFO	- Spectral Database Information System
STNGUIDE	- Descriptive information about STN databases
STNMAIL	- STN Electronic Mail Service
SYNTHLINE	- Synthline Drug Synthesis Database 1984-present
TEMA	- TEMA: Technology and Management 1990 to the present
TEXTILETECH	- Textile Technology Digest from 1978 to the present
TOXCENTER	- Toxicology Center from 1907 - present
TRIBO	- TRIBOLOGY INDEX (Friction, Wear, Lubrication) 1972-pres.
TULSA	- Petroleum Abstracts 1965-present
TULSA2	- Petroleum Abstracts 1965-present (Non-subscribers)
UFORDAT	- Environment Research in Progress from 1974 - present
ULIDAT	- Environmental Literature from 1976-present
USAN	- USAN - United States Adopted Names
USGENE	- The USPTO Genetic Sequence Database
USPAT2	- U.S. Patents Latest Publications from 2001 - present
USPATFULL	- U.S. Patents Original Publications from 1971 - present
VETB	- Derwent Veterinary Drug File 1968 - 1982
VETU	- Derwent Veterinary Drug File 1983 - 2001
WATER	- Water Resource Abstracts 1967 to the present
WELDASEARCH	- Weldasearch 1967 to the present
WPIDS	- Derwent World Patents Index 1963 - present (Subscr.)
WPIFV	- WPIFV - DERWENT WORLD PATENT INDEX FIRST VIEW
WPINDEX	- Derwent World Patents Index 1963 - present
WPIX	- DERWENT WPI WITH EXTENSION ABSTRACTS 1963 - PRESENT
WSCA	- World Surface Coatings Abstracts 1976 - present
WTEXTILES	- WORLD TEXTILES 1970 TO THE PRESENT
ZCA	- CA File with zero connect hour pricing
ZCAPLUS	- CAPLUS File with zero connect hour pricing
ZREGISTRY	- Zero connect hour REGISTRY

To look at detailed information about a file, first access that file using the FILE command. Enter "HELP CONTENT" at an arrow prompt (=>) for a general description of the file. Enter "HELP DIRECTORY" for a list of help messages available for that file. The database summary sheet is also available for the file in STNGUIDE. Enter "FILE STNGUIDE" at an arrow prompt (=>), then search the file name in the /DBN search field. You can then display the search fields, display fields, file content, sources, etc.

All files are available for multifile searching except HOME, STNGUIDE, STNMAIL, and the Learning Files.

=>			
=> file CASREACT			
COST IN U.S. DOLLARS	SINCE FILE	TOTAL	
	ENTRY	SESSION	
FULL ESTIMATED COST	52.41	52.83	
DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE	TOTAL	
	ENTRY	SESSION	
CA SUBSCRIBER PRICE	-2.34	-2.34	

FILE 'CASREACT' ENTERED AT 09:09:18 ON 08 AUG 2007  
 USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT  
 COPYRIGHT (C) 2007 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is held by the publishers listed in the PUBLISHER (PB) field (available for records published or updated in Chemical Abstracts after December 26, 1996), unless otherwise indicated in the original publications.

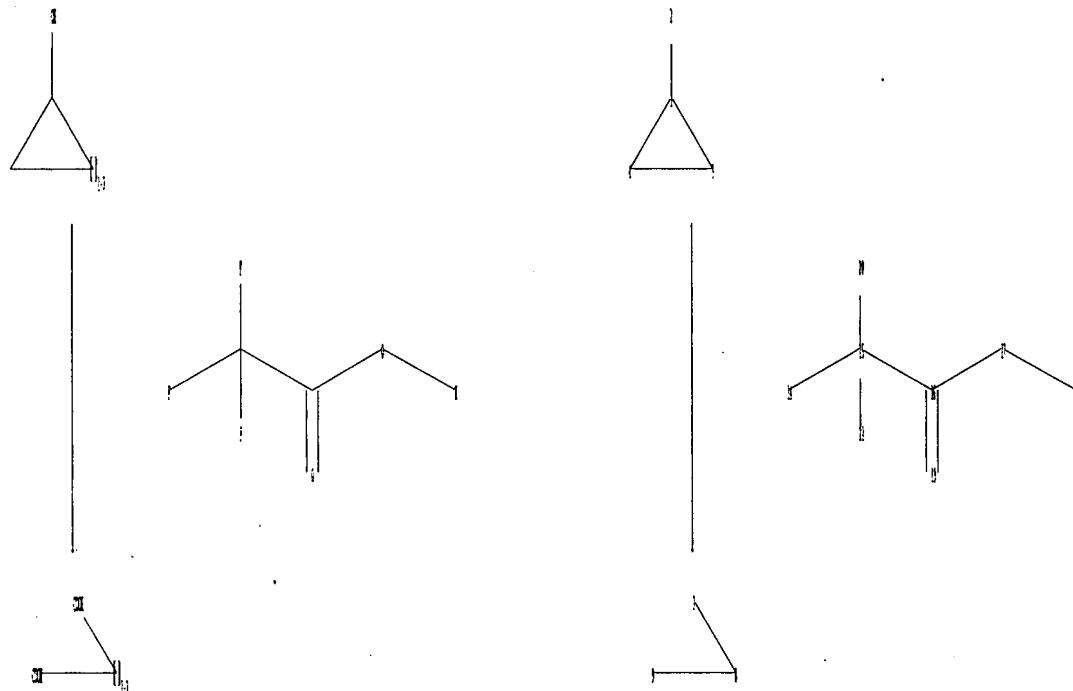
New CAS Information Use Policies, enter HELP USAGETERMS for details.

\*\*\*\*\*  
\*  
\* CASREACT now has more than 12 million reactions  
\*  
\*\*\*\*\*

Some CASREACT records are derived from the ZIC/VINITI database (1974-1999) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>  
Uploading C:\Documents and Settings\PZucker\My Documents\Examination Auxillary files\10599171\10599171 rxn query.str



chain nodes :  
2 7 8 9 14 15 16 17 18 19 20 21  
ring nodes :  
1 3 4  
chain bonds :  
1-2 7-8 8-9 14-15 15-16 15-20 15-21 16-17 16-19 17-18  
ring bonds :  
1-3 1-4 3-4  
exact/norm bonds :  
1-2 1-3 1-4 3-4  
exact bonds :  
7-8 8-9 14-15 15-16 15-20 15-21 17-18  
normalized bonds :  
16-17 16-19

Match level :  
1:Atom 2:CLASS 3:Atom 4:Atom 7:CLASS 8:CLASS 9:CLASS 14:CLASS 15:CLASS  
16:CLASS 17:CLASS 18:CLASS 19:CLASS 20:CLASS 21:CLASS  
fragments assigned reagent role:

```
containing 14
fragments assigned product role:
containing 7
fragments assigned reactant/reagent role:
containing 1
```

```
L15      STRUCTURE UPLOADED
```

```
=> d l15
L15 HAS NO ANSWERS
L15      STR
```

```
* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY -  AVAILABLE VIA OFFLINE PRINT *
```

```
Structure attributes must be viewed using STN Express query preparation.
```

```
=> search l15 sss sam
SAMPLE SEARCH INITIATED 09:09:58 FILE 'CASREACT'
SCREENING COMPLETE -      1271 REACTIONS TO VERIFY FROM      76 DOCUMENTS
100.0% DONE      1271 VERIFIED      9 HIT RXNS      2 DOCS
SEARCH TIME: 00.00.04

FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED VERIFICATIONS:  23283 TO  27557
PROJECTED ANSWERS:      2 TO      124
```

```
L16      2 SEA SSS SAM L15 (      9 REACTIONS)
```

```
=> d wscan
'WSCAN' IS NOT A VALID FORMAT FOR FILE 'CASREACT'
```

```
The following are valid formats:
```

```
ABS ----- GI and AB
ALL ----- BIB, AB, IND, RE, Single-step Reactions
APPS ----- AI, PRAI
BIB ----- AN, plus Bibliographic Data
CAN ----- List of CA abstract numbers without answer numbers
CBIB ----- AN, plus Compressed Bibliographic Data
DALL ----- ALL, delimited (end of each field identified)
IABS ----- ABS, indented with text labels
IALL ----- ALL, indented with text labels
IBIB ----- BIB, indented with text labels
IND ----- Indexing data
IPC ----- International Patent Classifications
ISTD ----- STD, indented with text labels
OBIB ----- AN, plus Bibliographic Data (original)
OIBIB ----- OBIB, indented with text labels

SBIB ----- BIB, no citations
SIBIB ----- IBIB, no citations

MAX ----- Same as ALL
PAT5 ----- PI, SO
SCAN ----- TI and FCRD (random display, no answer number.  SCAN
           must be entered on the same line as DISPLAY, e.g.,
           D SCAN.)
SSRX ----- Single-Step Reactions (Map, Diagram, and Summary for
           all single-step reactions)
```

STD ----- BIB, IPC, and NCL

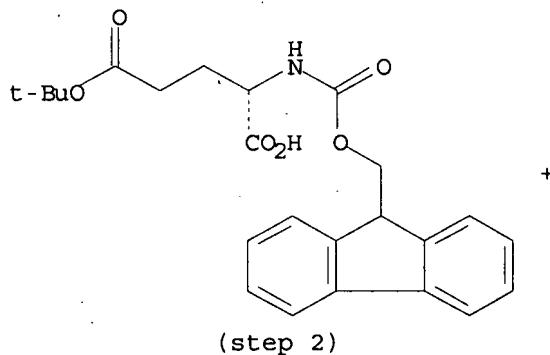
CRD ----- Compact Display of All Hit Reactions  
CRDREF ----- Compact Reaction Display and SO, PY for Reference  
FHIT ----- Reaction Map, Diagram, and Summary for first hit reaction  
FHITCBIB --- FHIT, AN plus CBIB  
FCRD ----- First hit in Compact Reaction Display (CRD) format  
FCRDREF ---- First hit in Compact Reaction Display (CRD) format with CA reference information (SO, PY). (Default)  
FPATH ----- PATH, plus Reaction Summary for the "long path"  
FSPATH ----- SPATH, plus Reaction Summary for the "short path"  
HIT ----- Reaction Map, Reaction Diagram, and Reaction Summary for all hit reactions and fields containing hit terms  
OCC ----- All hit fields and the number of occurrences of the hit terms in each field. Includes total number of HIT, PATH, SPATH reactions. Labels reactions that have incomplete verifications.  
PATH ----- Reaction Map and Reaction Diagram for the "long path". Displays all hit reactions, except those whose steps are totally included within another hit reaction which is displayed  
RX ----- Hit Reactions (Map, Diagram, Summary for all hit reactions)  
RXG ----- Hit Reaction Graphics (Map and Diagram for all hit reactions)  
RXL ----- Hit Reaction Long (Map, Diagram, Summary for all hit reactions)  
RXS ----- Hit Reaction Summariers (Map and Summary for all hit reactions)  
SPATH ----- Reaction Map and Reaction Diagram for the "short path". Displays all single step reactions which contain a hit substance. Also displays those multistep reactions that have a hit substance in both the first and last steps of the reaction, except for those hit reactions whose steps are totally included within another hit reaction which is displayed

To display a particular field or fields, enter the display field codes. For a list of the display field codes, enter HELP DFIELDS at an arrow prompt (=>). Examples of combinations include: D TI; D BIB RX; D TI, AU, FCRD. The information is displayed in the same order as the specification. All of the formats, except CRD, CRDREF, FHIT, PATH, FPATH, SPATH, FSPATH, FCRD, FCRDREF, HIT, RX, RXG, RXS, SCAN, and OCC, may be used with the DISPLAY command to display the record for a specified Accession Number.

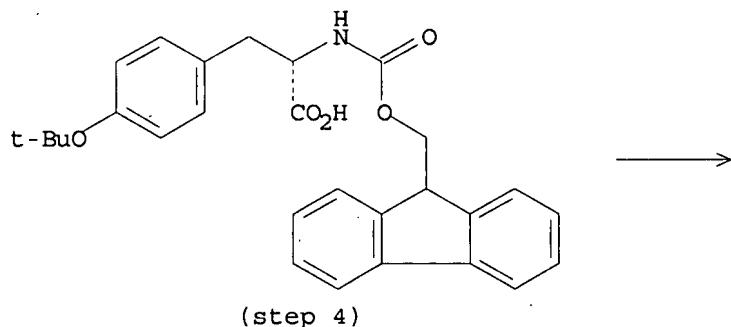
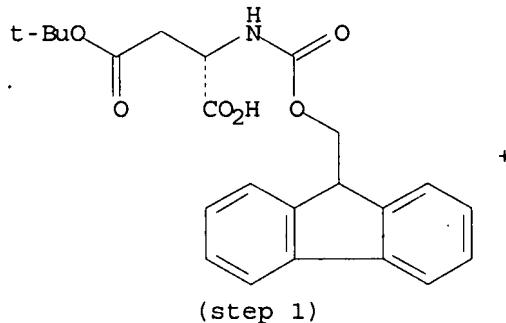
ENTER DISPLAY FORMAT (FCRDREF):fcrdref

L16 ANSWER 1 OF 2 CASREACT COPYRIGHT 2007 ACS on STN

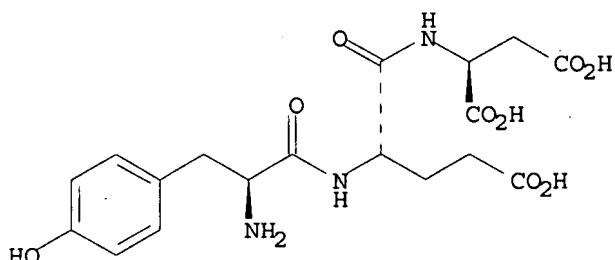
RX(36) OF 37



RX(36) OF 37



RX(36) OF 37



REF: Bioorganic & Medicinal Chemistry Letters, 16(12), 3277-3281;  
2006

NOTE: automatic peptide synthesizer used, supported on Wang resin,  
solid-supported reaction

CON: STAGE(1) room temperature  
STAGE(2) 1 hour, room temperature

STAGE(3) room temperature

STAGE(4) 1 hour, room temperature

STAGE(5) room temperature

STAGE(6) 1.5 hours, room temperature

=> help dfields

The display fields that you may see in records in this file are listed below. You may use these field codes in any combination with the DISPLAY and PRINT commands.

Reaction Fields

Display

Code

Definition

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-----

CRD(n)	Compact Display of Reaction n
CRDREF(n)	Compact Display of Reaction n and SO, PY
RX(n)	Reaction n (Map, Diagram, Summary for reaction n)
RXG(n)	Reaction n Graphics (Map and Diagram for reaction n)
RXL(n)	Reaction n Long (Map, Diagram, Summary for all steps of reaction n)
RXS(n)	Reaction n Summary (Map and Summary for reaction n)
SSRX(n)	Single-Step Reaction n (Map, Diagram, and Summary for single-step reaction n)

#### Document Fields

Display Code	Definition
AB	Abstract Text
AI (AP)	Patent Application Information
AI.B (AP.B)	Basic Patent Application Information
AN	Accession Number
AU	Author Name
CC	Classification Code (CA section and section cross-references)
CK	Crossover Key
CS	Corporate Source
CT	Controlled Term
CYA	Country Name of Author
CYC (CY.CNT)	Patent Country Count
DS	Designated State (Patents)
DS.B	Designated States, Basic
DT (TC)	Document Type
FS	File Segment
GI	Graphic Image or Graphic Image Information
ICA	Additional or Supplementary IPC
ICI	Index or Complementary IPC
ICM	Main IPC
ICS	Secondary IPC
IN	Patent Inventor
ISN	International Standard (Document) Number
IT	Index Term and Role
JT	Journal Title
LA	Language
NCL	National Patent Classification
OS	Other Source
PA	Patent Assignee
PB	Publisher
PI (PN)	Patent Information
PI.B (PN.B)	Patent Information, Basic
PNC (PN.CNT)	Patent Number Count
PRAI	Priority Information
PUI	Publisher Item Identifier
PY	Publication Year
PY.B	Publication Year, Basic
RE	Cited References
RETABLE	Cited References Table
RE.CNT (REC)	Citing Document's Reference Count
RL	Index Term and CAS Role
SO	Source
ST	Supplementary Term
SX	CA Section Cross Reference
TI	Title of Document
URL	Uniform Resource Locator

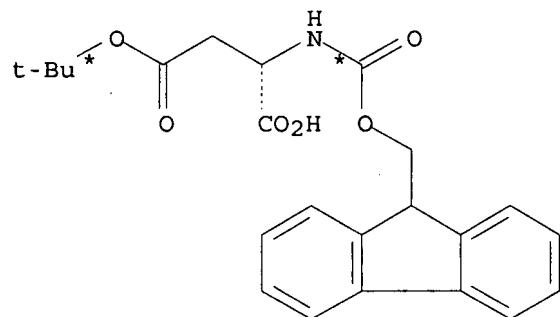
For more information on displaying individual fields, enter HELP FORMAT at an arrow prompt (=>). To find out about extracting terms from display fields, enter HELP SELECT and HELP ANALYZE. For a list

of fields that may be used with the SELECT and ANALYZE commands, enter HELP\_EFIELDS.

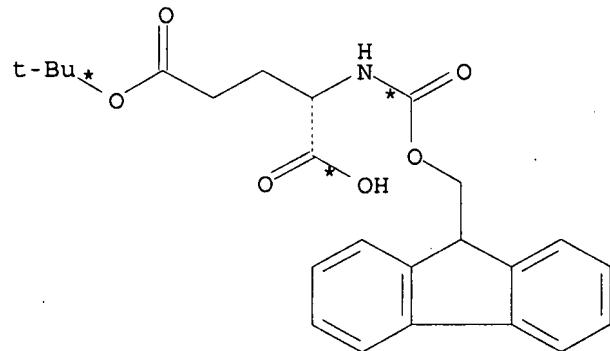
=> d rx

L16 ANSWER 1 OF 2 CASREACT COPYRIGHT 2007 ACS on STN

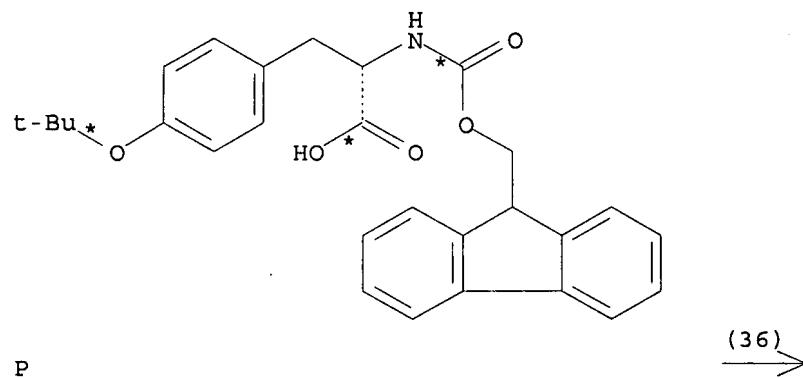
RX (36) OF 37 T + AB + P ==> BK

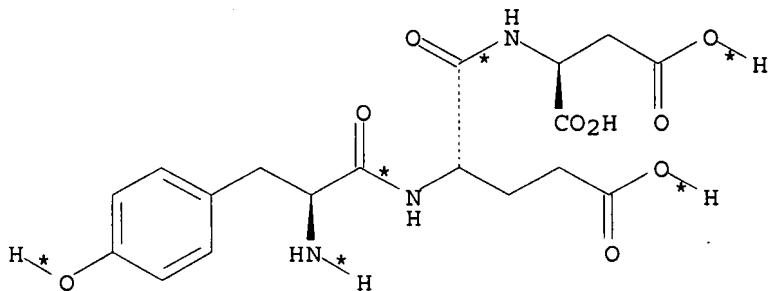


T



AB





BK

RX(36) RCT T 71989-14-5

STAGE(1)

RGT F 110-89-4 Piperidine  
 SOL 68-12-2 DMF  
 CON room temperature

STAGE(2)

RCT AB 71989-18-9  
 RGT G 125700-67-6 Benzotriazolium der, H 7087-68-5 EtN(Pr-i)2,  
 I 2592-95-2 1-Benzotriazolol  
 SOL 68-12-2 DMF  
 CON 1 hour, room temperature

STAGE(3)

RGT F 110-89-4 Piperidine  
 SOL 68-12-2 DMF  
 CON room temperature

STAGE(4)

RCT P 71989-38-3  
 RGT G 125700-67-6 Benzotriazolium der, H 7087-68-5 EtN(Pr-i)2,  
 I 2592-95-2 1-Benzotriazolol  
 SOL 68-12-2 DMF  
 CON 1 hour, room temperature

STAGE(5)

RGT F 110-89-4 Piperidine  
 SOL 68-12-2 DMF  
 CON room temperature

STAGE(6)

RGT J 540-63-6 HSCH2CH2SH, K 100-68-5 PhSMe, L 7732-18-5 Water,  
 M 76-05-1 F3CCO2H, N 108-95-2 PhOH  
 CON 1.5 hours, room temperature

PRO BK 898268-87-6

NTE automatic peptide synthesizer used, supported on Wang resin,  
 solid-supported reaction

=> logoff hold  
 COST IN U.S. DOLLARS  
 FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
10.96	63.79

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	0.00	-2.34

SESSION WILL BE HELD FOR 120 MINUTES  
STN INTERNATIONAL SESSION SUSPENDED AT 09:14:40 ON 08 AUG 2007